

Seward County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/14/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 18 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Seward County economy.¹

These 18 sectors have a total direct output of approximately **\$2.06 billion** and support **3,158 jobs** in Seward County. Running the model for all 18 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Seward County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	3157.9	21.91%	\$320,713,688	27.81%	\$2,063,006,534	178.89%
Indirect Effect	1140.1	7.91%	\$93,790,731	8.13%	\$180,114,224	15.62%
Induced Effect	909.3	6.31%	\$58,881,705	5.11%	\$104,014,792	9.02%
Total Effect	5207.3	36.12%	\$473,386,124	41.05%	\$2,347,135,550	203.52%

As shown in the above table, agriculture, food, and food processing sectors support **5,207 jobs**, or **36.12%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$2.35 billion**, roughly **203.52% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 18 agriculture, food, and food processing sectors is approximately **\$473.4 million**, or **41.05% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **41.05% of the total economy**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the animal, except poultry, slaughtering sector is the top employer with **2,531 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Seward County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Animal, except poultry, slaughtering	2,531.3	\$1,822,071,077
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	393.2	\$138,741,858
Truck transportation	358.8	\$60,712,579
Wholesale trade	150.5	\$33,229,946
Limited-service restaurants	108.4	\$8,493,209
Real estate	105.8	\$12,382,515
Grain farming	81.0	\$77,505,792
Support activities for agriculture and forestry	77.0	\$8,556,094
Full-service restaurants	76.6	\$3,678,693
Child day care services	74.7	\$3,503,556

The animal, except poultry, slaughtering directly contributes approximately **\$1.82 billion** to the Seward County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Animal, except poultry, slaughtering	2,531.3	\$1,822,071,077
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	393.2	\$138,741,858
Grain farming	81.0	\$77,505,792
Truck transportation	358.8	\$60,712,579
Wholesale trade	150.5	\$33,229,946
Owner-occupied dwellings	0.0	\$19,454,409
Real estate	105.8	\$12,382,515
Electric power transmission and distribution	8.4	\$10,348,790
Monetary authorities and depository credit intermediation	48.1	\$9,627,555
Support activities for agriculture and forestry	77.0	\$8,556,094

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Seward County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	3.1	\$7,811,300.41
Grain farming	81.0	\$77,505,792.00
Greenhouse, nursery, and floriculture production	3.0	\$354,963.25
Cotton farming	6.6	\$1,618,605.76
All other crop farming	4.4	\$827,089.68
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	393.2	\$138,741,858.24
Dairy cattle and milk production	7.1	\$2,760,722.29
Poultry and egg production	0.5	\$429,264.95
Animal production, except cattle and poultry and eggs	1.5	\$378,849.88
Commercial logging	0.7	\$33,627.59
Commercial hunting and trapping	1.3	\$25,939.82
Animal, except poultry, slaughtering	2531.3	\$1,822,071,077.40
Bread and bakery product, except frozen, manufacturing	18.9	\$2,373,672.94
Frozen cakes and other pastries manufacturing	1.2	\$196,355.24
Tortilla manufacturing	20.0	\$2,999,230.36
Breweries	0.8	\$522,633.76
Veterinary services	13.5	\$1,086,814.10
Landscape and horticultural services	69.8	\$3,268,735.98

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Seward County, the retail sector was omitted.